Performance Data Sheet

AVB5542EXN

General Information

Model	AVB5542EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	11300	10000					
	Watts	1720	1700					
	Amps	7.49	7.58					
	Lb/h	146	134					
-10	Btu/h	13700	12200	10700				
	Watts	1850	1850	1840				
	Amps	8.09	8.25	8.30				
	Lb/h	175	162	148				
-5	Btu/h	16400	14700	13000	11300			
	Watts	1980	2000	2020	2010			
	Amps	8.64	8.88	9.02	9.03			
	Lb/h	208	194	179	163			
0	Btu/h	19400	17500	15700	13800	11800		
	Watts	2100	2140	2180	2200	2190		
	Amps	9.15	9.48	9.70	9.81	9.78		
	Lb/h	245	229	213	196	176		
5	Btu/h	22700	20600	18600	16500	14400		
	Watts	2200	2270	2330	2370	2400		
	Amps	9.62	10.0	10.4	10.6	10.6		
	Lb/h	286	268	251	233	213		
10	Btu/h	26400	24100	21800	19600	17200	14800	12100
	Watts	2290	2390	2470	2540	2590	2610	2590
	Amps	10.0	10.5	11.0	11.3	11.5	11.5	11.4
	Lb/h	330	311	293	274	253	227	197
15	Btu/h	30400	27900	25400	22900	20400	17700	14900
	Watts	2370	2490	2600	2700	2780	2820	2830
	Amps	10.4	11.0	11.5	12.0	12.3	12.4	12.4
	Lb/h	378	358	339	319	297	271	240
20	Btu/h	34800	32000	29300	26600	23800	21000	17900
	Watts	2440	2580	2720	2850	2950	3030	3070
	Amps	10.7	11.4	12.0	12.6	13.0	13.3	13.5
	Lb/h	430	409	389	368	345	319	287

25	Btu/h	39500	36500	33500	30600	27600	24500	21300
	Watts	2480	2660	2830	2980	3120	3220	3290
	Amps	10.9	11.7	12.5	13.2	13.7	14.2	14.5
	Lb/h	486	464	443	421	397	370	338
30	Btu/h	44700	41400	38100	34900	31700	28400	24900
	Watts	2510	2720	2920	3100	3270	3410	3510
	Amps	11.1	12.0	12.9	13.7	14.4	15.0	15.4
	Lb/h	546	523	501	478	454	426	393
35	Btu/h	50200	46600	43100	39600	36200	32600	28900
	Watts	2520	2760	2990	3210	3410	3580	3710
	Amps	11.1	12.2	13.2	14.2	15.0	15.8	16.3
	Lb/h	610	586	562	539	514	485	452
40	Btu/h	56200	52300	48500	44700	41000	37100	33200
	Watts	2520	2790	3050	3300	3530	3740	3910
	Amps	11.1	12.3	13.5	14.6	15.6	16.5	17.2
	Lb/h	678	652	628	604	578	549	516
45	Btu/h	62500	58300	54200	50100	46100	42000	37800
	Watts	2490	2790	3090	3380	3640	3880	4090
	Amps	11.0	12.4	13.7	14.9	16.1	17.1	18.0
	Lb/h	750	723	698	673	646	617	583
50	Btu/h	69300	64700	60300	56000	51600	47200	42700
	Watts	2440	2780	3110	3430	3730	4010	4250
	Amps	10.8	12.3	13.8	15.1	16.5	17.7	18.8
	Lb/h	826	798	772	746	719	689	655
55	Btu/h	76500	71600	66800	62200	57500	52800	48000
	Watts	2370	2750	3110	3470	3810	4120	4400
	Amps	10.5	12.1	13.8	15.3	16.8	18.2	19.5
	Lb/h	906	877	850	823	796	765	731

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.350240E+04	2.223611E+03	5.596717E+00	5.612791E+02
C2	1.032663E+03	-1.216543E+01	1.787791E-03	1.087450E+01
C3	-4.822570E+02	-1.522696E+01	3.017519E-02	-7.853379E+00
C4	8.812845E+00	-4.269830E-01	-1.907600E-03	7.210389E-02
C5	-5.848574E+00	3.943950E-01	7.335749E-04	-5.131955E-02
C6	3.130644E+00	2.628657E-01	4.574651E-04	6.881724E-02
C7	1.332286E-02	-1.339846E-03	-7.212995E-06	4.067282E-05
C8	-2.697916E-02	2.352273E-03	1.206245E-05	4.443080E-05
C9	1.062515E-02	4.353048E-04	5.890958E-06	1.502649E-04
C10	-1.092890E-02	-1.151504E-03	-3.485596E-06	-2.508484E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature